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MICROPROGRAM CONTROL SYSTEM DATA PROCESSOR

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ABSTRACT

PURPOSE: To analyze a microprogram of a read only memory in the same way as an analysis of a microprogram of a general control memory by making the titled processor have a function for transferring the contents which are stored in the read only memory, to the control memory, and executing its maintenance.

CONSTITUTION: By making a maintenance the routine 11 have a usual standard maintenance function, namely, a function of read-out, write, etc. of a control memory 20, a maintenance object microprogram 15 can be analyzed, executed and traced easily. Other important function of the maintenance use routine 11 is to deliver its control to the maintenance object microprogram 15 after embedding a start instruction of the maintenance use routine 11 into an optional address of the maintenance object microprogram 15. In such a way, *debugging* by delimiting a flow of the processing of the maintenance object microprogram 15 to an optional section is made possible, and this processor realizes a means which is effective for the maintenance of the maintenance object microprogram 15 and the trouble shooting of a hardware controlled by this maintenance object microprogram 15.